

CITY OF ANNAPOLIS WATER QUALITY TESTS RESULTS FOR 2003

Contaminant Violation Y/N	Level Detected	Date Last Tested	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
1. Total Coliform Bacteria / N	0	Weekly	n/a	0	* 0	* Based on percentage of positive tests per month; less than 5% can test positive.(MCL). Naturally present in the environment (Source)
2. Fecal coliform and E.Coli / N	0	As Required	n/a	0	** 0	** A routine sample and repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive (MCL) Human and animal fecal waste (Source)
3. Turbidity	Exempt		NTU		TT	Soil runoff
Radioactive Contaminants						
4. Beta/photon emitters / N	<4	1999	mrem/yr	0	4	Decay of natural and man-made deposits
5. Alpha emitters / N	<3	1999	pCi/l	0	15	Erosion of natural deposits
6. Combined radium / N	<2	1999	pCi/l	0	5	Erosion of natural deposits
Inorganic Contaminants						
7. Antimony / N	<.5	2001	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
8. Arsenic / N	<5	2001	ppb	n/a	50	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production waste
9. Asbestos / N	EXEMPT		MFL	7	7	Decay of asbestos cement water mains; erosion of natural deposits
10. Barium / N	<0.05	2001	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
11. Beryllium / N	<0.5	2001	ppb	4	4	Discharge from metal refineries and coal-burning factories, discharge from electrical, aerospace, and defense industries
12. Cadmium / N	<0.5	2001	ppb	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
13. Chromium / N	<10	2001	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
14. Copper / N	0.03	2002	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
15. Cyanide / N	<5	1998	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
16. Fluoride / N	1.4	2001	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
17. Lead / N	<5	2002	ppb	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
18. Mercury (inorganic) / N	<0.5	2001	ppb	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
19. Nitrate (as Nitrogen) / N	<0.05	2003	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
20. Nickel / N	<0.02	2001	ppm	0.1	0.1	
21. Selenium / N	<5	2001	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits, discharge from mines
22. Thallium / N	<2	2001	ppb	0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

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Synthetic Organic Contaminants including Pesticides and Herbicides						
23. Oxamyl (Vydate) / N	<2	1995	ppb	200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
24. PCBs (Polychlorinated biphenyls) / N	EXEMPT		nanograms/l	0	500	Discharge from industrial chemical factories
25. Pentachlorophenol / N	<0.04	1995	ppb	0	1	Discharge from wood preserving factories
26. Picloram / N	<0.1	1995	ppb	500	500	Herbicide runoff
27. Simazine / N	<0.07	1995	ppb	4	4	Herbicide runoff
28. Toxaphene / N	<1	1995	ppb	0	3	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Contaminants						
29. Benzene / N	<0.05	1998	ppb	0	5	Discharge from factories; leaching from gas storage tanks and landfills
30. Carbon tetrachloride / N	<0.5	1998	ppb	0	5	Discharge from chemical plants and other industrial activities
31. Chlorobenzene / N	<0.5	1998	ppb	100	100	Discharge from chemical and agricultural chemical factories
32. o-Dichlorobenzene/N	<0.5	1998	ppb	600	600	Discharge from industrial chemical factories
33. p-Dichlorobenzene / N	<0.5	1998	ppb	75	75	Discharge from industrial chemical factories
34. 1,2 - Dichloroethane / N	<0.5	1998	ppb	0	5	Discharge from industrial chemical factories
35. 1,1 - Dichloroethylene / N	<0.5	1998	ppb	7	7	Discharge from industrial chemical factories
36. cis-1,2-Dichloroethylene / N	<0.5	1998	ppb	70	70	Discharge from industrial chemical factories
37. trans -1,2 Dichloroethylene / N	<0.5	1998	ppb	100	100	Discharge from industrial chemical factories
38. Dichloromethane / N	EXEMPT		ppb	0	5	Discharge from pharmaceutical and chemical factories
39. 1,2-Dichloropropane / N	<0.5	1998	ppb	0	5	Discharge from industrial chemical factories
40. Ethylbenzene / N	<0.5	1998	ppb	700	700	Discharge from petroleum refineries
41. Styrene / N	<0.5	1998	ppb	100	100	Discharge from rubber and plastic factories; leaching from landfills
42. Tetrachloroethylene / N	<0.5	1998	ppb	0	5	Leaching from PVC pipes; discharge from factories and dry cleaners
43. 1,2,4 - Trichlorobenzene / N	<0.5	1998	ppb	70	70	Discharge from textile-finishing factories
44. 1,1,1 -Trichloroethane / N	<0.5	1998	ppb	200	200	Discharge from metal degreasing sites and other factories
45. 1,1,2-Trichloroethane/ N	<0.5	1998	ppb	3	5	Discharge from industrial chemical factories
46. Trichloroethylene / N	<0.5	1998	ppb	0	5	Discharge from metal degreasing sites and other factories
47. (Total trihalomethanes) / N	4	2000	ppb	0	100	By-product of drinking water chlorination
48. Toluene / N	<0.5	1998	ppb	1	1	Discharge from petroleum factories
49. Vinyl Chloride/N	<0.5	1998	ppb	0	2	Leaching from PVC piping; discharge from plastics factories
50. Xylenes/ N	<0.5	1998	ppb	10	10	Discharge from petroleum factories; discharge from chemical factories
Unregulated Contaminants	MCL	MCLG	Level Detected	Sample Date	Source	
Sodium (ppm)	Not Regulated	Not Regulated	0.72	12/98	EPA regulations require monitoring of these while we consider setting limits.	
Radon 222 (pCi/l)	"	"	30	1/99	"	
Chloroform (ppb)	"	"	0.8	4/98	"	

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Bromodichloromethane (ppb)	"	"	0.7	4/98	"	
Dibromochloromethane (ppb)	"	"	0.7	4/98	"	
Unregulated Contaminants (continued)	MCL	MCLG	Level Detected	Sample Date	Source	
P-Isopropyltoluene	Not Regulated	Not Regulated	0.5	4/98	EPA regulations require monitoring of these while we consider setting limits	
Chloromethane	"	"	0.5	4/98	"	
Dichlorodifluoromethane	"	"	0.5	4/98	"	
Bromomethane	"	"	0.5	4/98	"	
Chloroethane	"	"	0.5	4/98	"	
Trichlorofluoromethane	"	"	0.5	4/98	"	
Hexachlorobutadiene	"	"	0.5	4/98	"	
Naphthalene	"	"	0.5	4/98	"	
Methyl-Tert-Butyl-Ether	"	"	0.5	4/98	"	
Dibromomethane	"	"	0.5	4/98	"	
1,1-Dichloropropene	"	"	0.5	4/98	"	
1,3-Dichloropropane	"	"	0.5	4/98	"	
1,3-Dichloropropene	"	"	0.5	4/98	"	
1,2,3-Trichloropropane	"	"	0.5	4/98	"	
2,2-Dichloropropane	"	"	0.5	4/98	"	
1,2,4-Trimethylbenzene	"	"	0.5	4/98	"	
1,2,3-Trichlorobenzene	"	"	0.5	4/98	"	
N-Butylbenzene	"	"	0.5	4/98	"	
1,3,5-Trimethylbenzene	"	"	0.5	4/98	"	
Tert-Butylbenzene	"	"	0.5	4/98	"	
Sec-Butylbenzene	"	"	0.5	4/98	"	
Bromochloromethane	"	"	0.5	4/98	"	
1,2-Dibromo-3-Chloropropane	"	"	0.5	4/98	"	
Chloroform	"	"	0.8	4/98	"	
Bromoform	"	"	0.5	4/98	"	
Bromodichloromethane	"	"	0.7	4/98	"	
Dibromochloromethane	"	"	0.7	4/98	"	
Ethylene Dibromide (EDB)	"	"	0.5	4/98	"	
Methylene Chloride	"	"	0.5	4/98	"	
o-Chlorotoluene	"	"	0.5	4/98	"	
p-Chlorotoluene	"	"	0.5	4/98	"	
m-Dichlorobenzene	"	"	0.5	4/98	"	
1,1-Dichloroethane	"	"	0.5	4/98	"	
1,1,1,2-Tetrachloroethane	"	"	0.5	4/98	"	

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1,1,2,2-Tetrachloroethane	"	"	0.5	4/98	"	
Bromobenzene	"	"	0.5	4/98	"	
Isopropylbenzene	"	"	0.5	4/98	"	
n-Propylbenzene	"	"	0.5	4/98	"	
methyl-t-butyl ether	"	"	ND	06/01	"	
Nitrobenzene	"	"	ND	06/01	"	
4-4-DDE	"	"	ND	06/01	"	
Perchlorates by TC	"	"	ND	06/01	"	
DCCA-mono-acid/di-acid degradate	"	"	ND	08/01	"	
2,4-Dinitrotoluene	"	"	ND	10/01	"	
2,6-Dinitrotoluene	"	"	ND	10/01	"	
Acetochlor	"	"	ND	10/01	"	
EPTC	"	"	ND	10/01	"	
Molinate	"	"	ND	10/01	"	
Terbacil	"	"	ND	10/01	"	